

Marion County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 22 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Marion County economy.¹

These 22 sectors have a total direct output of approximately **\$291.1 million** and support **1,262 jobs** in Marion County. Running the model for all 22 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Marion County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	1261.5	18.94%	\$57,904,665	16.72%	\$291,101,372	84.07%
Indirect Effect	472.8	7.10%	\$34,092,979	9.85%	\$54,642,217	15.78%
Induced Effect	169.3	2.54%	\$10,209,092	2.95%	\$19,514,465	5.64%
Total Effect	1903.6	28.58%	\$102,206,737	29.52%	\$365,258,055	105.49%

As shown in the above table, agriculture, food, and food processing sectors support **1,904 jobs**, or **28.58%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$365.3 million**, roughly **105.49% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 22 agriculture, food, and food processing sectors is approximately **\$102.2 million**, or **29.52% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **29.52% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **816 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Marion County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	816.0	\$101,983,304
Support activities for agriculture and forestry	238.9	\$18,382,442
Grain farming	123.3	\$48,148,618
All other food manufacturing	82.6	\$28,851,118
Wholesale trade	62.3	\$13,063,012
All other crop farming	45.4	\$3,654,943
Veterinary services	40.1	\$3,878,062
Other animal food manufacturing	28.8	\$39,110,146
Farm machinery and equipment manufacturing	28.3	\$13,172,911
Truck transportation	26.7	\$5,473,352

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$102.0 million** to the Marion County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	816.0	\$101,983,304
Grain farming	123.3	\$48,148,618
Other animal food manufacturing	28.8	\$39,110,146
All other food manufacturing	82.6	\$28,851,118
Fluid milk manufacturing	26.2	\$19,643,004
Oilseed farming	17.1	\$18,827,458
Support activities for agriculture and forestry	238.9	\$18,382,442
Farm machinery and equipment manufacturing	28.3	\$13,172,911
Wholesale trade	62.3	\$13,063,012
Truck transportation	26.7	\$5,473,352

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Marion County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	17.1	\$18,827,457.74
Grain farming	123.3	\$48,148,617.59
Vegetable and melon farming	1.4	\$294,589.94
Greenhouse, nursery, and floriculture production	0.6	\$83,763.41
Cotton farming	0.6	\$173,173.62
All other crop farming	45.4	\$3,654,942.81
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	816.0	\$101,983,303.98
Dairy cattle and milk production	12.3	\$5,253,675.70
Poultry and egg production	0.7	\$595,011.32
Animal production, except cattle and poultry and eggs	17.5	\$2,311,906.21
Commercial logging	2.3	\$113,757.48
Commercial hunting and trapping	4.7	\$96,059.34
Other animal food manufacturing	28.8	\$39,110,146.09
Fluid milk manufacturing	26.2	\$19,643,004.28
Animal, except poultry, slaughtering	4.9	\$3,410,471.26
Bread and bakery product, except frozen, manufacturing	4.8	\$531,478.16
Frozen cakes and other pastries manufacturing	0.3	\$41,232.61
All other food manufacturing	82.6	\$28,851,117.78
Breweries	0.8	\$356,151.68
Farm machinery and equipment manufacturing	28.3	\$13,172,911.36
All other industrial machinery manufacturing	2.6	\$570,537.81
Veterinary services	40.1	\$3,878,062.20

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Marion County, the retail sector was omitted.